

Subject: glowbugs V1 #210
glowbugs

Tuesday, December 23 1997

Volume 01 : Number 210

Date: Mon, 22 Dec 97 09:28:43 EST
From: jkh@lexis-nexis.com (John Heck)
Subject: Barracks Bag VFO Article

Folks,

I have a copy of the original "Barracks Bag VFO" article by F.R.Nichols, W6JJI, from the June 1947 QST, if anyone is interested in it. Just send an SASE to my address and I'll send you a copy.

Regards,

John Heck, KC8ETS
1009 Donson Drive
Dayton, Ohio 45429
(937)865-7036(work)
jkh@lexis-nexis.com

Date: Mon, 22 Dec 1997 11:24:25 -0500 (EST)
From: leel@digital.net
Subject: wtb 2 metere rug

Hi gang

Still looking for a simple 2 meter rig

either 115 or 12v ok

solid state (bad word) or ba ok

if solid state and digital tuned would want either a scan function

or a seek function, so as to be able to check who is on the band when I come up.

Also would want schematic or op manual and the mike that goes with it.

Will pay any reasonable amt. plus shipping.

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance & coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Mon, 22 Dec 1997 12:00:21 EST
From: EWoodman <EWoodman@aol.com>
Subject: VT52

Can someone tell me what a VT52 tube is? I've got a cross reference to the VT numbers somewhere but can't find it.

Thanks,

Eric KALYRV

Date: Mon, 22 Dec 97 11:05:22 -0700
From: "Deane D McIntyre" <dmcintyr@imap1.acs.ucalgary.ca>
Subject: Re: VT52

In message <c94d56a.349e9ca7@aol.com> EWoodman writes:

>

> Can someone tell me what a VT52 tube is? I've got a cross reference to the VT
> numbers somewhere but can't find it.

VT52=45 Special. Jerry Proc's crossreference is at:
http://136.159.225.44/vt_to_jan.3

73, Deane D McIntyre VE6BPO
dmcintyr@acs.ucalgary.ca

Date: Mon, 22 Dec 1997 10:11:54 -0800 (PST)
From: herr@ridgecrest.ca.us (Michael Herr)
Subject: 4X150A's for sale

Folks,

I have 5 41250A's for sale, still in the can unopened. How about \$10
plus shipping, buy all 5 and get shipping free

73

Mike WA6ARA

Date: Mon, 22 Dec 1997 19:29:15 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: FS/FT: Old magazines

I have a quantity of old magazines for sale or trade.

"Radio Craft" from 1934 thru 1938, "Short Wave Craft" 1935,
(Both Hugh Gernsback publications).

"Service" 1935 thru 1941, this dealt with servicing consumer
radios.

"Radio Engineering", later changed to "Communications" 1937 thru
1944. Dealt mostly with broadcast radio industry and technical matters.

Some are in extremely good shape, some have torn covers, some have
termite damage. I will entertain cash offers and trades.

I am looking for old radio texts from the 1920's and 1930's,
ARRL/JONES "Handbooks" of the same era. I am interested in moving
the entire lot or by the year only. Not individual issues please.

If you want a complete list, let me know.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' under construction**
*** Looking for a TRC-10 transceiver *****
*** Looking for an RAL receiver *****

Date: Mon, 22 Dec 1997 18:39:39 -0500
From: "carl yaffey" <cyaffey@sprynet.com>
Subject: Collins 30S-1 value

I would like to find out the value of a Collins 30S-1 amp. The one I'm interested in is supposedly working and has spare tubes. Cosmetically, it's dirty from the original owner's years of smoking. Any help would be appreciated.
TNX es 73, Carl K8NU

Date: Mon, 22 Dec 1997 23:45:59 -0400
From: "Graham VE1FC" <velfc@nbnet.nb.ca>
Subject: HQ-100 decals needed

This is a multi-part message in MIME format.

- =====_NextPart_000_000A_01BD0F33.C1527FC0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Have an HQ-100 receiver .. Front pannel lettering gone !!

Does anyone have suggestions as to how to reletter the beast ??

Any help or suggestions appreciated.
Please email direct.
Thanks
Graham
velfc@nbnet.nb.ca

- =====_NextPart_000_000A_01BD0F33.C1527FC0
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
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<HEAD>

<META content=3D'"MSHTML 4.72.2106.6"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>Have an HQ-100 receiver .. Front =
pannel=20
lettering gone !!</DIV>
<DIV> </DIV>
<DIV>Does anyone have suggestions as to =
how to=20

reletter the beast ??</DIV>
<DIV> </DIV>
<DIV>Any help or suggestions=20
appreciated.</DIV>
<DIV>Please email direct.</DIV>
<DIV>Thanks</DIV>
<DIV>Graham</DIV>
<DIV>velfc@nbnnet.nb.ca</DIV></BODY></HTML>

- =====_NextPart_000_000A_01BD0F33.C1527FC0--

Date: Mon, 22 Dec 1997 22:02:40 -1000
From: Peter Demmer <ampruss@hits.net>
Subject: Re: 813 xtal osc. (update)

Jack Meadows wrote:

>
> Hi gang,
>
> Last night I soldered in the last component and ran the smoke test.
> No smoke and 100 watts output with a 3.579 whimpy crystal! Ok,
>
> So, how are your Hartley, push pull tx, xtal osc. projects going? I sure
> enjoy hearing about them.
>
> Best regards,
> Jack W7QQQ

Evening Jack: I got the ceramic socket and all the power supply components including the 5 vac @ 7 Amps for the heater and a 56k/75w screen dropping resistor. Having a bit of difficulty with the nicely machined lead connectors on my screen voltage vacuum relay. I thought I had every bristol (splined) allen style wrench in the book. But I don't have the one for the screws in the for-mentioned connectors. I hate to slit and expand them off the stub connections that emit out of the glass envelope. The screws are really tiny. The smallest bristol I have is 0.050" across the spline points. Visually, under magnification, it looks like they could be a 0.025" Bristol spline size allen. Any help out there Jack?

I don't know about the bias. I do remember my own HB 2 x 813 AB1 linear. I shut it off completely with a simple relay switching about a minus (-) 120 vdc through a 2.5 mH RFC, semi-break-in CW. But it was driven by the usual 75 watt exciter not the crystal and I had the usual 25mA (per tube) idling current. What are you using for plate voltage? And are you using the 2 volt miniature incandescent lamp (flash light bulb) for the crystal current limiter? Jack, we could hang a 2 vdc LED (or any small signal diode) in series with a 180 ohm current limiting resistor on the crystal side of the incandescent lamp, to ground. It will rectify and shunt to ground any RF thing in excess of about 1.7 volts RF. Have you measured and or if so, what RF voltage are you getting at the crystal? The current and voltage swing (cold to hot bulb illumination) must be a real see-saw tweeter oscillator? There has to be another way. Looks like abt 2.5 v (from the R2 cntr.tap to R1. How about lifting R1 off the top of L1/C3 and tap R1 down on L1? We could also use a pair of 200 pF variable capacitors with their rotor to rotor shafts mechanically locked off-set by 180 degrees. This would make a neat (differential capacitive) way to capacitively tap up or down on L1, leaving the R2/C1/C2 cntr tap to the Beam-forming plate (pin 5) intact. This will provide a means to adjust the drive closer to ground (more negative with respect to the directly heated

cathode and to the CG (pin 4) Hold the fone Jack. My screen switching relay utilizes 24 to 26.5 vdc. Which I plan to switch on/off with a simple base fired darlington from my tick chip. That CW keyed 26.5 vdc can also be series dropped to 12 vdc for any hermetically sealed reed relay. The reed relay only has to switch about a minus (-) 90 to 120 vdc at about 5 mA max. OOOps! for a moment there, got some sand in my eyes. Past my bed time any how. So what say to all these thoughts?
Aloha, Peter, KH6CTQ

Date: Tue, 23 Dec 1997 05:10:17 -0700 (MST)
From: Jack Meadows <jackmead@getnet.com>
Subject: Re: 813 xtal osc. (update)

Hi Peter,
I enjoyed your comments and you have me thinking about some things I hadn't considered. This simple circuit is much like a Hartley in that it is simple, but gets more complicated when building it and optimizing it. Looking at the schematic, I thought well I can throw this together in a couple of days...ha a week later I was still making tradoffs on how I could use my on-hand junk parts rather than ordering stuff. That's the fun part...using what you have.

On Mon, 22 Dec 1997, Peter Demmer wrote:

> Evening Jack: I got the ceramic socket and all the power supply
> components including the 5 vac @ 7 Amps for the heater

Peter, did you really mean 10 vac? The 813 heater is 10v.
Oh, I see, maybe your going to use a 5v-0-5v transformer. That's what I did.

> screen dropping resistor. Having a bit of difficulty with the nicely
> machined lead connectors on my screen voltage vacuum relay. I thought I
> had every bristol (splined) allen style wrench in the book. But I don't
> have the one for the screws in the for-mentioned connectors. I hate to
> slit and expand them off the stub connections that emit out of the glass
> envelope. The screws are really tiny. The smallest bristol I have is
> 0.050" across the spline points. Visually, under magnification, it looks
> like they could be a 0.025" Bristol spline size allen. Any help out
> there Jack?

I believe I saw some tiny hex allen wrenches in a Hobby shop.
They use em on RC cars and model airplanes. Hope that helps.

The vacuum relay should be better than what I used. I used a standard relay and am getting alot of arcing. It's a relay I had on hand. I have never tried a vacuum relay...where could I get one? Arcing at the relay contacts was causing my osc to not turnoff...at first I thought it was feedback till I looked and saw the nice corona across the contacts...ha! Fixed it temporarily with a .1 capacitor (two .22uf 600 volts in series) from the contact to ground. I keys ok now, but the contacts may not last long.

> 25mA (per tube) idling current . What are you using for plate voltage?
> And are you using the 2 volt minature incandescent lamp (flash light
> bulb) for the crystal current limiter?

I'm using one of those 2v 60ma. pilot lamps. It works super. Gives me

a good indication of crystal current. I have blown one lamp, but it saved the crystal. I think the lamp cost about as much as my 3.579 xtal...ha, times have changed.

I can adjust the pi network caps for 100 watts output with very little crystal current...just find the right combination. The output power peak and crystal current peak do not coincide, which is good!

I'm looking forward to hearing your big 813 puffer on the air. Oh, I fired up mine on 7.050 Mhz also. 100 watts with 1500vdc plate. Hint: I have a Variac on the high voltage supply, so I can do some preliminary tuning at 1 kV. I haven't really tried to see what the upper power limit is yet, but I did get something like 125 watts output at around 1800 vdc. What a puffer!

I am very careful around these kind of voltages. Please do the same. Nasty stuff.

Hope I haven't made this post too long...see ya'll on 3.579/7.050 Mhz!

Best regards,
Jack W7QQQ

Date: Tue, 23 Dec 1997 08:11:09 -0400
From: "Brian Carling" <bry@mnsinc.com>
Subject: Re: Barracks Bag VFO Article

The Barracks Bag VFO article is already available on the Internet!

No need to spend money on postage fellers!!

It's at:

<http://www.algonet.se/~janax/glowbug.htm>

Thanks to: Jan, SM5GNN

Speaking of Jan, has anyone HEARD from him lately???

He has not been seen on Glowbugs or the web lately!

73 to all and Merry Christmas de AF4K
Bry

On 22 Dec 97 at 9:28, John wrote:

> Folks,
> I have a copy of the original "Barracks Bag VFO" article by F.R.Nichols, W6JJI, from
> the June 1947 QST, if anyone is interested in it. Just send an SASE to my address
> and I'll send you a copy.
> Regards,
> John Heck, KC8ETS
> 1009 Donson Drive
> Dayton, Ohio 45429
> (937)865-7036(work)
> jkh@lexis-nexis.com
= = = = =

*** 73 from Radio AF4K/G3XLQ Gaithersburg, MD USA *

** E-mail to: bry@mnsinc.com *

*** ICQ: 3910641 ***

** http://www.mnsinc.com/bry/ *

AM International #1024, TENTEN #13582. GRID FM19. Using a SWAN 250 on 6m,
Other rigs: Valiant, DX-60/HG-10, FT-840, TM-261, Ameco TX-62, Gonset Communicator III
HTX-202...TEN-TEN #13582, DXCC #17,763 Bicentennial WAS

Date: Tue, 23 Dec 1997 08:53:21 -0800 (PST)
From: Jacqueline Herman <jherman@sierra.net>
Subject: Stuff... (fwd)

- ----- Forwarded message -----
Date: Mon, 22 Dec 1997 22:19:42 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Stuff...

Today I received two "bits of information" from kind members of the list:

A Harper's Electricity Book for Boys from (I think) Doug Ripka and Walt Turansky's regenny rx and PP transmitters schematics. Thanks to both of you.

Will get Walt's stuff up on the web page ASAP. His regenny uses a #32 tube as the detector. In my RCA tube manual, it is listed as a Sharp Cutoff Tetrode. As far as I can find out, there are NO other sharp-cutoff tetrodes in any other configuration.

So, does anyone know if it is possible to "make" a sharp-cutoff tetrode out of a sharp-cutoff pentode by simply connecting the suppressor grid and the screen grid together, or would that just "mess up the works"?

The Harper's book which Doug loaned me has very clear descriptions and building instructions for several different types of coherer/de-coherers, and two or three types of "wireless transmitters" using home-made inductions coils and glass plate capacitors. Every de-coherer is a slightly modified double-solenoid bell clapper. The book also shows you how to build "non-sparking" keys for the transmitters, including one which has an oil-filled cup around the stationary contact.

This 1907 book is as much fun for me to read now as its earlier version (1903) was for me about 30 years ago. It has clear instructions on how to build your own lead-acid batteries, "dynamamos" (generators), motors, etc.

Great fun.

Ken

End of glowbugs V1 #210
